

# R4SHD

EXTRA HIGH PRESSURE  
FOUR SPIRAL HOSE



INTRODUCTION

**RECOMMENDED FOR:**

Extra high pressure hydraulic oil lines.

**PERFORMANCE:**

Meets or Exceeds the Performance Requirements of:  
EN 856 Type 4SH, ISO 3862 Type 4SH.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Four alternating layers of spiralled high tensile steel wire.

**COVER:**

**DIEHARD™** Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 & T9000 Series BITELOK Crimp Couplings.

**FRAS - FLAME RESISTANCE AND ANTI-STATIC:**

**DIEHARD™** complies with Flame Resistant and Electrical Resistance (Anti-Static) requirements of Australian Standard AS 2660 and Methods of Test AS 1180.10B and 13A. Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.

**TEMPERATURE RANGE:**

From -40°C to +100°C (-40°F to +212°F).  
For water, emulsions etc. see page 57.

**WORKING PRESSURE:**

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

**THIRD PARTY APPROVALS:**

ABS, DNV, GL, LR, MED and USCG.

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T7000 Series** (-20 to -32) pages 217 to 233.

**T9000 Series** (-12 to -16) pages 234 to 240.  
Assembly Instructions page 498.

HOSE

COUPLINGS

ADAPTORS

ACCESSORIES

FILTERS

TECHNICAL

R4SHD - DIEHARD SPIRAL HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
R4SH12D	19	-12	19,1	3/4	31,8	1.25	420	6100	1680	24400	280	11.0	1,47	0.99	T9000
R4SH16D	25	-16	25,4	1	37,9	1.49	380	5500	1520	22000	340	13.4	1,97	1.32	T9000
R4SH20D	31	-20	31,8	1.1/4	44,4	1.75	350	5100	1400	20400	460	18.1	2,44	1.64	T7000
R4SH24D	38	-24	38,1	1.1/2	52,4	2.06	300	4350	1200	17400	560	22.1	3,13	2.10	T7000
R4SH32D	51	-32	50,8	2	66,8	2.63	250	3625	1000	14500	700	27.6	4,51	3.03	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.